



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

1

of

1

Complete if Known

Application Number

10/676,657

Filing Date

October 1, 2003

First Named Inventor

Protigal et al.

Group Art Unit

2811

Examiner Name

Unknown

Attorney Docket Number

2269-2898.4US (88-0070.09/US)

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
AS ✓		US-4,533,846	08/06/1985	Simko	
		US- 4,945,399	07/31/1990	Brown et al.	
		US- 5,256,996	10/26/1993	Marsland et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AS		GB 2 121 249 A	12/14/1983	Simko		

Examiner
Signature

AS

Date
Considered

3/15/05

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INNOVATION DISCLOSURE STATEMENT BY APPLICANT

MAR 22 2004

(use as many sheets as necessary)

Subject	1. <i>Q</i>	of	1
---------	-------------	----	---

Complete if Known

Application Number	10/676,657
Filing Date	October 1, 2003
First Named Inventor	Protigal et al.
Group Art Unit	2811
Examiner Name	Unknown
Attorney Docket Number	2269-2898.4US (88-0070.09/US)

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 2898.4US (88-070.09/US)		Application Number Not Yet Assigned	
Applicant Protigal et al.				Filing Date October 1, 2003 Group Art Unit Unknown			

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A.S. ↓ ✓	3,460,010	08/1969	R.J. Domenico et al.			
	3,538,397	11/1970	S.P. Davis			
	3,566,203	02/1971	Maguire et al.			
	3,699,722	10/1972	Davidson et al.			
	3,769,105	10/1973	Chen et al.			
	3,772,097	11/1973	Davis			
	3,893,146	07/1975	Heeren			
	4,061,999	12/1977	Proebsting et al.			
	4,164,751	08/1979	Tasch, Jr.			
	4,266,282	05/1981	Henle et al.			
	4,271,461	06/1981	Hoffmann et al.			
	4,317,686	03/1982	Anand et al.			
	4,346,459	08/1982	Sud et al.			
	4,349,862	09/1982	Bajorek et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
A.S. ↓ ✓	56-15065	02/1981	Japan				
	56-148859	11/1981	Japan				
	56-153778	11/1981	Japan				
	57-001902	01/1982	Japan				
		2 103 012 A	07/1982	GB			

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
A.S. ↓ ✓		McKenny, Verron D., "Good bits swapped for bad in 64-kilobit E-PROM," pps. 115-120 plus Cover and Table of Contents, <u>Electronics</u> , March 13, 1990.
		Natori et al., "FAM: 16.5: A 34ns 256K DRAM," pps. 232-233 plus Cover and Table of Contents, <u>IEEE International Solid-State Circuits Conference</u> , February 25, 1983.
		<u>Research Disclosure</u> , (3 pages), June 1985.

EXAMINER A.S. ↓ ✓	DATE CONSIDERED 3/15/05
--	--

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>				Docket Number (Optional) 2898.4US (88-070.09/US)		Application Number Not Yet Assigned	
				Applicant Protigal et al.			
				Filing Date October 1, 2003		Group Art Unit Unknown	

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A-S	4,389,715	06/1983	Eaton, Jr. et al.			/
	4,419,812	12/1983	Topich			
	4,423,431	12/1983	Sasaki			
	4,427,989	01/1984	Anantha et al.			
	4,458,336	07/1984	Takemae			
	4,477,736	10/1984	Onishi			
	4,493,056	01/1985	Mao			
	4,494,221	01/1985	Hardee et al.			
	4,513,254	04/1985	Harr			
	4,566,081	01/1986	Ochii			
	4,567,542	01/1986	Shimada et al.			
	4,577,214	03/1986	Schaper			
	4,587,639	05/1986	Aoyama et al.			
V	4,604,639	08/1986	Kinoshita			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
A-S	58-64048	04/1983	Japan			/	
	58-77251	05/1983	Japan				
	61-73367	04/1986	Japan				
	V	61-082458	04/1986	Japan			

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
A-S		"Decoupling Capacitor Structure to Reduce FET Output Driver Switching Noise," pps. 167-168, <u>IBM Technical Disclosure Bulletin</u> , Vol 30., No. 7, December 1987.
↓		"MOS Memory," (4 pages), <u>Toshiba Mos Memory Products Data Book</u> , April 1987.
V		"Double-Traversing Pseudo-Folded-Bitline Design for Cross-Point Memory Cells," pps. 246-248, <u>IBM Technical Disclosure Bulletin</u> , Vol. 30, No. 11, April 1988.

EXAMINER <div style="font-size: 2em; text-align: center;">A-S</div>	DATE CONSIDERED <div style="font-size: 2em; text-align: center;">3/15/05</div>
--	---

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449

INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

Docket Number (Optional)
2898.4US (88-070.09/US)

Application Number
Not Yet Assigned

Applicant Protigal et al.

Filing Date October 1, 2003

Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A.S.	4,605,980	08/1986	Hartranft et al.			
	4,616,655	10/1986	Weinberg et al.			
	4,626,881	12/1986	Kishi et al.			
	4,628,214	12/1986	Leuschner			
	4,631,421	12/1986	Inoue et al.			
	4,641,425	02/1987	Dubuisson et al.			
	4,654,690	03/1987	Okada et al.			
	4,656,605	04/1987	Clayton			
	4,658,379	04/1987	Fujishima et al.			
	4,691,304	09/1987	Hori et al.			
	4,695,678	09/1987	Itagaki et al.			
	4,695,870	09/1987	Patraw			
	4,704,625	11/1987	Lee			
	4,716,549	12/1987	Nakano et al.			
	4,720,467	01/1988	Muggli et al.			
V	4,720,737	01/1988	Shirato			

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

A.S.		"New Memory Products 1987/1988," (4 pages), <u>NEC Electronics Inc. Supplement to 1986 Memory Products Data Book</u> , December 1987.
↓		Gillingham et al., "High-Speed, High-Reliability Circuit Design for Megabit DRAM," pps. 1171-1175 plus Table of Contents, <u>IEEE Journal of Solid-State Circuits</u> , Vol 26, No. 8, August 1991.
↓		"IBM's Response to Micron," (22 pages), December 8, 1995.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>			Docket Number (Optional) 2898.4US (88-070.09/US)		Application Number Not Yet Assigned	
Applicant Protigal et al.			Filing Date October 1, 2003			
Group Art Unit Unknown						

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
A-S	4,730,276	03/1988	Waller			/
	4,737,830	04/1988	Patel et al.			
	4,777,518	10/1988	Mihara et al.			
	4,780,846	10/1988	Tanabe et al.			
	4,780,850	10/1988	Miyamoto et al.			
	4,780,851	10/1988	Kurakami			
	4,780,852	10/1988	Kajigaya et al.			
	4,829,480	05/1989	Seo			
	4,835,416	05/1989	Miller			
	4,903,113	02/1990	Frankeny et al.			
	4,930,112	05/1990	Tanaka et al.			
	4,937,649	06/1990	Shiba et al.			
	4,943,960	07/1990	Komatsu et al.			
	4,987,325	01/1991	Seo			
	5,012,132	04/1991	Wang			
N	5,014,097	05/1991	Kazerounian et al.			

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)
A-S	"On-Chip Decoupling Capacitor for Logic VLSI Chips," page 1280, IBM Technical Disclosure Bulletin, Vol. 30 No. 3, Aug 1987.	

EXAMINER <div style="font-size: 2em; text-align: center;">AS</div>	DATE CONSIDERED <div style="font-size: 2em; text-align: center;">3/15/05</div>
--	--

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 2898.4US (88-070.09/US) Applicant Protigal et al. Filing Date October 1, 2003		Application Number Not Yet Assigned Group Art Unit Unknown	
--	--	--	--	---	--

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AS-	5,032,892	07/1991	Chern et al.			
	5,038,325	08/1991	Douglas et al.			
	5,042,011	08/1991	Casper et al.			
	5,177,908	01/1993	Tuttle			
	RE 34,425	11/1993	Schultz			
	5,266,821	11/1993	Chern et al.			
	5,307,309	04/1994	Protigal et al.			
	5,315,551	05/1994	Hirayama			
	5,345,110	09/1994	Renfro et al.			
	5,366,931	11/1994	Kim			
	5,631,492	05/1997	Ramus et al.			
	5,644,151	07/1997	Izumi et al.			
	5,687,109	11/1997	Protigal et al.			
	RE 35,825	06/1998	Zager			
V	6,184,568	02/2001	Protigal et al.			

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
A-S	61-269317	11/1986	Japan				
A-S	01-268032	10/1989	Japan				

OTHER DOCUMENTS		(Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER <div style="font-size: 2em; text-align: center;">AS</div>	DATE CONSIDERED <div style="font-size: 1.5em; text-align: center;">3/15/05</div>
--	--

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.